MECHANICAL HANDLING

INCORPORATING 'HANDLING CONVEYING AUTOMATION' AND 'MATERIALS HANDLING'

Published in Association with 'Fördern und Heben' and 'Manutention'

Founded in 1891 as 'Cassiers Magazine'

INDEX TO VOLUME XLIX JANUARY TO DECEMBER 1962

January	pp. 1-58	July	pp. 411-458
February	59-116	August	459-508
March	117-176	September	509-558
April	177-236	October	559–614
May	237-338	November	615-670
June	339-410	December	671-730

Published on the 28th of each month by Iliffe Industrial Publications Limited, (Managing Director: Phillip Morgan, M.A.), Dorset House, Stamford Street, London, S.E.1. Telephone: WATerloo 3333. Telegrams: Mechand, London, Telex. Cables: Mechand, London, S.E.1. Provincial offices at Coventry, Birmingham, Manchester, Glasgow.

OVERSEAS ASSOCIATES

France: Compagnie Francaise d'Editions, 40 rue du Colisée, Paris 8e, France. Tel: Balzac 77-50.

W. Germany: Krausskopf-Verlag für Wirtschaft G.m.b.H. & Co., Bahnhofstrasse 61, Wiesbaden, Germany. Tel: 59821-25.

U.S.A.: Thomas Skinner & Co. (Publishers), Ltd., 111 Broadway, New York 6, N.Y., U.S.A. Tel: Di-9-1197.

Annual Subscription: Home and Overseas £4 0s. 0d.
except U.S.A. and Canada $11.00

INDEX TO VOLUME XLIX

ARTICLES

	Page
Abstracts and References 54, 112, 174, 233, 337, 456, 505, 555, 610, 666, 727,	
A Method of Training Drivers for Fork Lift Trucks—	
Part I	432
Part II	490
A New Milk Bottling Plant (Express Dairy)	120
A Seven-Mile Long Ore Conveyor System in Chile	151
A 2-ton All-wheel Drive Dumper	130
A Versatile New Crane	315
A Versatile Transport System	204
A New Wheeled Loader	319
Abrasives, Handling in the Manufacture of (The Carborundum Co. Ltd.)	414
'All Square' Range of Cylinders, The	197
Air Cushion Conversion for Conventional Land Vehicle	437
Allis-Chalmers BTL-14D Tractor Loader, The	67
An Outstanding Apprentice School (Mining Engineering Co. Ltd.)	652
Automatic Ingredient Handling at Reading Biscuit Factory (Huntley & Palmers Ltd.)	95
Aveling-Barford Shuttle Minecar	199
Balanced-boom Tanker Loading Equipment	84
Banana Discharging Installation at Southampton	595
Band and Slat Conveyors in Booth's New Bottling House and Bonded Warehouse (Booth's Distilleries Ltd.)	4
Barge-loading Gravel Plant	444
Bearing, Lubricated and Permanently Sealed	200
Blended Wool in a Textile Mill, Conveyors Distribute	626
Blowing Solids by Hose	706
Borg-Warner Limited, Handling Systems at	303
Bottling Plant, A New Milk (Express Dairy)	120
Bradwell Charge/Discharge Machine	91
British Railways, Mechanized Coal Depot for	699
Bulk Delivery Plant (British Oil & Cake Mills)	714
Bulk Flour Handling in New Bakery (Scotch Bakery (Sussex) Ltd.)	195
Cable Cleats Added to 'Unistrut' Range	203
Car Assembly, Standard-Triumph	512
Casting of Aluminum, Specialized Handling for the Continuous (Alcan Industries Ltd.)	712
Cement Manufacture Without Dust—	
Part I	569
Part II	618
Charge/Discharge Machine, Bradwell	91
Clay Handling Plant	192
Coal Miner, Mechanized (H. E. Collins)	589
Coiled Steel Handling Equipment	325
Combined Cold Store and Distribution Depot (Eskimo Foods Ltd.)	703
Composting of Domestic Refuse	213
Containerization of Traffic in Port of New York	154
Conveyor, A Seven-mile Long Ore System in Chile	151
Conveyors, Band and Slat in Booth's New Bottling House and Bonded Warehouse (Booth's Distilleries Ltd)	4
Conveyors Distribute Blended Wool in a Textile Mill (Wm. Hollins & Co. Ltd.)	626
Conveyor for Clothing (E. Raffles & Co. Ltd.)	62
Conveyor, Selective Vertical (Lamson Engineering Co. Ltd.)	687
Crane, A Versatile New	315
Crane, Mobile with a New Look (F. Taylor & Sons (Manchester) Ltd.)	479
Crane, 3-ton Mobile Winch	434
Crane, New Jones 7-ton Cantilever	131
Crane, the Iron Fairy 3-60 Mobile	399
Cranes Give New Look to Busy Wharf	93
Cranes, Level-luffing Cargo-handling for the Tees Conservancy	407
Cranes, Three New Tower (Geo. Cohen Sons & Co. Ltd.)	580
Cylinders, the 'All Square' Range of	197
Demonstration Centre, M.E.C	445
Demonstration, Clark Ranger	545
Demonstration of Sideloaders and Mobile Cranes (Metropolitan-Cammell Carriage & Wagon Co. Ltd.)	541
Denbeath Coal Preparation Plant	683
Design of Warehouses in Light Industry to Suit Mechanical Handling	583
Distribution Depot and Combined Cold Store (Eskimo Foods Ltd.)	703
Drive Dumper, A 2-ton All-wheel (Thwaites)	130
Dumper, New Goose Concrete	14
Dumper, 6-ton (Massey-Ferguson)	146
Electric Motors, Selection of	576
Exact Volume Dispenser, Three Applications of an	92
Excavator, Hydraulic, The J.C.B.3	73
Exports, the Basic Steps	588
Fabrication Works, Tubewrights Reorganize	688
Flexible Hoses in Hydraulic Systems—Use and Failure	469
Foco-Crane Vehicle Loader in Britain	25
Fork Lift Truck, 6,000 lb Diesel	138
Fork Lift Trucks, A Method of Training Drivers for—	
Part I	432
Part II	490
Fork lift Reach Truck, 4,500-lb Capacity (Lansing Bagnall)	526
Fork Truck, Heavy Duty of British Design and manufacture (Boss (Engineers) Ltd.)	562
4,500-lb Capacity Fork Lift Reach Truck (Lansing Bagnall)	526
4,500-lb Capacity Reach Fork Truck (Conveyancer Fork Trucks Ltd.)	180
General Engineering Plant, Materials Handling in	421
Handling, at Reading Biscuit Factory, Automatic (Huntley & Palmers Ltd.)	95
Handling, Bulk Flour in New Bakery (Scotch Bakery (Sussex) Ltd.)	195
Handling Equipment, Coiled Steel	325
Handling Gramophone Records (Electric Musical Industries Ltd.)	691
Handling in the Manufacture of Abrasives (The Caborundum Co. Ltd.)	414
Handling Methods and New Process in Shoe Manufacture (Howlett & White Ltd.)	209
Handling of Bulk Sugar in Barbados	207
Handling of Import Cargo at Apapa Quay Port of Lagos	125
Handling, New Method of Floor Tile Constituents (Marley Tile Co.)	690
Handling, Operational Research and Materials	29
Handling Plant, Clay	192
Handling Plant, Ore and Coke at Hartlepool—	
Part I (South Durham Steel & Iron Co. Ltd.)	462
Part II	532
Handling Scheme for Brick Works, Knotts	311
Handling Systems at Borg-Warner Ltd	303
Handling Wagons at a Steelworks (Richard Thomas & Baldwins Ltd.)	215
Hatch Covers, Remote-controlled	475
Heavy Duty Fork Truck of British Design and Manufacture (Boss (Engineers) Ltd.)	562
High Load Pneumatic Tyre	441
How Work Study has Expanded the Use of the Industrial Truck	629
Hydraulic Systems, Flexible Hoses in—Use and Failure	469
Improved Lumber Despatch Facilities at Sawmills in Ghana	597
Industrial Truck, How Work Study has expanded the use of the	629
Ingenious Coupling Device for Rear Dump Hauler	188
Interlocking Racking Units	443
Iron Fairy 3-60 Mobile Crane, The	399
J.C.B.3 Hydraulic Excavator, The	73
Knotts Handling Scheme for Brick Works	311
Land-Rover, 2½-litre Diesel	160
Laundry, Mechanized and Automated	99
Level-luffing Cargo-handling Cranes for the Tees Conservancy	407
Loader, A New Wheeled (Caterpillar Tractor Co. Ltd.)	319
Loading Equipment, Balanced-boom Tanker	84
Loading of Ships, Side	38
Load Glide—Mechanical Handling on Air (Clark Equipment Co.)	680
Lubricated and Permanently Sealed Bearings	200
Maritime Collapsible Pallet Container	442
Massey-Ferguson Industrial Tractors	10
Materials Handling in a General Engineering Plant	421
M.E.C. Demonstration Centre	445
Mechanical Handling Exhibition, Steel Group	488
Mechanical Handling on Air—Load Glide (Clark Equipment Co.)	680
Mechanical Loading at Spillers	623
Mechanized and Automated Laundry	99
Mechanical Coal Depot for British Railways	699
Mechanized Coal Miner (Collins Miner)	589
Mechanized Production of Floor Tiles (The Marley Floor Tile Co. Ltd.)	87
Mercedes Benz Tractor for Britain	186
Mobile Bridge Plate (P. C. & C. K. Chase Ltd.)	702
Mobile Crane, New Diesel-hydraulic 5-ton	75
Mobile Crane with a New Look (F. Taylor & Sons (Manchester) Ltd.)	479
Moving China Clay Pneumatically	201
New Diesel-hydraulic 5-ton Mobile Crane	75
New Goose Concrete Dumper	14
New Jones 7-ton Cantilever Crane	131
New Method of Handling Floor Tile Constituents (Marley Tile Co.)	690
New Process and Handling Methods in Shoe Manufacture (Howlett & White Ltd.)	209
One Cubic Yard Wheeled Tractor Shovel (E. Boydell & Co. Ltd.)	635
Operational Research and Materials Handling	29
Ore and Coke Handling Plant at Hartlepool—	
Part I (South Durham Steel & Iron Co. Ltd.)	462
Part II	532
Overseas Opportunities	98
Pallet Container, Maritime Collapsible	442
Pallet Handle Solves Warehousing Problems (Aspro-Nicholas Ltd.)	674
Perkins Export Millionth Engine	649
Plant, Barge-loading Gravel	444
Plant, Denbeath Coal Preparation	683
Port of Lagos, Handling of Import Cargo at Apapa Quay	125
Port of New York, Containerization of Traffic in	154
Post Office Tube Railway, Spiral Chute and Conveyor for	544
Premier Diamond Mine, Treatment and Recovery	147
Production of Floor Tiles, Mechanized (The Marley Floor Tile Co. Ltd.)	87

Page

Racking Units, Interlocking ... 443
Rear Dump Hauler, Ingenious Coupling Device for ... 188
Recovery of Scale in Steel Mill ... 198
Refuse, Composting of Domestic ... 213
Remote-controlled Hatch Covers ... 475

Sawmills in Ghana, Improved Lumber Despatch Facilities at ... 597
Shuttle Minecar, Aveling-Barford, The ... 199
Selection of Electric Motors ... 576
Self-unloading Bulk Cargo Carrier ... 592
Selective Vertical Conveyor (Lamson Engineering Co. Ltd.) ... 687
Sideloaders and Mobile Cranes, Demonstration of (Metropolitan-Cammell Carriage & Wagon Co. Ltd.) ... 541
Side Loading of Ships ... 38
6,000-lb Diesel Fork Lift Truck (Yale & Towne Manufacturing Co.) ... 138
6-ton Dumper ... 146
SLM Range of Loading Shovels, The ... 435
Sling Platform Speeds Dock Handling ... 440
Small Tracks for Loads up to 80 tons ... 428
Specialized Handling for the Continuous Casting of Aluminium (Alcan Industries Ltd.) ... 712
Speedy Removal of Rock from Tunnels ... 405
Spillers, Mechanical Loading at ... 623
Spiral Chute and Conveyor for Post Office Tube Railway ... 544
Standard-Triumph Car Assembly ... 512
Steel Group at Mechanical Handling Exhibition ... 488
Steel Mill, Recovery of Scale ... 198
Stockpiling with a Loco-Crane ... 204

10-ton Capacity Ultra Low Loader ... 37
Thermionic Vacuum Valves in Control Circuits ... 17
Three Applications of an Exact Volume Dispenser ... 92
Three New Tower Cranes (Geo. Cohen Sons & Co. Ltd.) ... 580
Three Speed Tractor Transmission ... 317
3-ton Mobile Winch Crane ... 434
Throughout Transport Pallets and the European Common Market ... 520
Tractor for Britain, Mercedes Benz ... 186
Tractor Loader, Allis-Chalmers BTL-14D, The ... 67
Tractor Shovel, One Cubic Yard Wheeled ... 635
Tractor Transmission, Three Speed ... 317
Tractors, Masey-Ferguson Industrial ... 10
Treatment and Recovery at the Premier Diamond Mine ... 147
Tubewrights Reorganize Fabrication Works ... 688
Tunnels, Speedy Removal of Rock from ... 405
2½-litre Diesel Land-Rover ... 160

Ultra Low Loader, 10-ton Capacity ... 37

Vacuum Valves, Thermionic, in Control Circuits ... 17
Vertical Car Park (Butterley Co. Ltd.) ... 15
Vehicle Loader in Britain, the Foco-Crane ... 25
Vibratory Conveyor and Screening Equipment ... 40
Volkswagen Open New Processing Plant ... 438

Warehouses, The Design of, in Light Industry to Suit Mechanical Handling ... 583
Warehousing Problems, Pallet Handle Solves (Aspro-Nicholas Ltd.) ... 674

AUTHORS

Abbenheim, L. P. ... 680
Achermann, A. ... 428
Aitken, D. F. ... 706
Beskine, J. M., B.Sc.(Eng.) ... 67
Bradbury, Farel ... 469
Clease, Douglas, A. G., B.Sc., A.M.I.Mech.E. ... 62, 192, 512, 623
Evans, Sir Anthony, Bt. ... 583
Grassie A. I., A.M.I.C.E. ... 597
Greene, D. E., A.M.Inst.Prod.E, M.B.I.M. ... 29
Hammond, Rolt, A.C.G.I., A.M.I.C.E. ... 569, 618
Hardie, Colin ... 520
Hoefkens, L. J., A.Inst.Prod.E. ... 154, 432, 629
Lane, J. F., A.M.Inst.T. ... 125
Mumby, K. ... 4, 75, 131, 479, 635
Parnall, C. E. ... 180, 399, 475, 526, 562
Potter, D. M., B.A.(Oxon) ... 462, 532
Sanders, P.M., M.I.Mech.E., M.Inst.T. ... 87, 674
Vallings, H. G., A.M.I.Mech.E. ... 120, 209, 303, 414, 691
Waite, Nicholas ... 588
Watts, J. L., A.M.I.E.E. ... 17, 576
Williams, A. E., Ph.D., F.C.S. ... 201
Williams, John M., B.Sc., A.M.I.Mech.E., A.F.R.Ae.S., A.M.B.I.M., Grad.I.P.E. ... 421

BOOKS REVIEWED

Britain and the European Communities ... 450
Civil Engineering Plant Handling Book (by Rolt Hammond—Published by Oliver & Boyd Ltd.) ... 718
Colliery Year Book and Coal Trades Directory (Published by Iliffe Books Ltd.) ... 718
Dunlopera (by Paul Jennings) ... 718

Fork Truck Stability Tests (Published by British Industrial Truck Association) ... 450

Gravity Flow Bulk Solids (by Andrew J. Jenkie) ... 549

Handling in Port (Published by the Port of Bristol Authority 1962) ... 450
Hydraulic Fluids (by R. H. Warring) ... 165
Hydraulics in Mechanical Handling (by J. R. Fawcett) ... 549

Materials Handling with Industrial Trucks ... 546
Mechanical Handling Directory ... 145
Modern Civil Engineering Practice (Edited by Rolt Hammond) ... 165
Modern Piling Practice (by Rolt Hammond, A.C.G.I., A.M.I.C.E.) ... 549

Plant Layout and Design (by James M. Moore) ... 450
Permanent Magnets and Magnetism; Theory, Materials, Design, Manipulation and Applications (General Editor D. Hadfield, Ph.D. M.Sc.(Eng.), F.I.M., M.I.E.E.—Published by Iliffe Books Ltd.) ... 718
Pumping Manual ... 165

Report of National Convention (Published by Export Council for Europe) ... 549

Systematic Layout Planning (by Richard Muther) ... 164

British Mechanical Handling Equipment Overseas

AEI Export Orders (Platt Bros. (Sales) Ltd. & Associated Electrical Industries Ltd.) ... 222
Argentine Agent for Staffa Equipment (Chamberlain Industries Ltd.) ... 44

Belt Conveyor System for the Arctic (New Conveyor Co. Ltd.) ... 599
Birfield Acquires Majority Holding in Swedish Co. (Birfield Ltd.) ... 654
British Consortium Starts £2½m Power Project in British Guiana (AEI, International Combustion (Export) Ltd. and Taylor Woodrow (Overseas) Ltd.) ... 44
British Excavators for Argentina (Thomas Smith & Sons (Rodley) Ltd.) ... 449
British Made Walking Dragline for Canada (Ransomes & Rapier Ltd.) ... 498
British Manipulator for Euratom (Nuclear Equipment Ltd.) ... 102
British Tractors on Finnish Highway (International Harvester Co. (Great Britain) Ltd.) ... 497

Conveyancer Fork Lifts for Poland (Conveyancer Fork Trucks Ltd.) ... 655
Conveyor Belts for Holland (Goodyear Tyre & Rubber Co. (G.B.) Ltd.) ... 167
Crawler-Mounted Draglines for East Pakistan (NCK-Rapier Ltd.) ... 223
Caterpillar Equipment for Finland (Caterpillar Tractor Co. Ltd.) ... 448
Contract for Marco (Marco Conveyor & Engineering Co. Ltd.) ... 654
Conveyor Belting for USSR (U.S. Rubber International (Great Britain) Ltd., and BTR Industries) ... 449
Courses for Overseas Distributors (J. C. Bamford (Excavators) Ltd.) ... 331

David Brown Double-Helical Gears for New Zealand (Lamberton & Co. Ltd.) ... 43
Deep-sea Winch for Canada (The Telegraph Construction & Maintenance Co. Ltd.) ... 223
Dumpers for Swaziland (Aveling-Barford Ltd.) ... 547

Eastern Europe Buys Sideloaders (Lancers Machinery Ltd.) ... 600
Electrical Plant for Hong Kong Water Scheme (General Electric Co. Ltd.) ... 548
Expert Industrial Controls Subsidiary in France ... 222
Export Order for Land Reclamation in Egypt (Caterpillar Tractor Co. Ltd.) ... 547

Falcon Side-operating Fork Lift for Tasmania (Burnie Board & Timber Pty. Ltd.) ... 655
Fenner Marketing Company in Germany (J. H. Fenner & Co. (Overseas) Ltd.) ... 332
Fifth Impactor Crusher for Italy (General Electric Co. Ltd.) ... 547
Fork Trucks for Belgian Brewery (Lansing Bagnall Ltd.) ... 599
Fourteen Conveyancers for the Indian Ports ... 44

G.E.C. Will Supply Ore-blending Machinery to Belgium (General Electrical Co. Ltd.) ... 44
Geared Motors for South America (Electropower Gears Ltd.) ... 654
Gift Ship Delivers IH Tractor to St. Lucia (H. E. Robinson & Co. Ltd.) ... 103

Handy Angle Supplied to Peru ... 103
Holman 'Rotairs' for Japan and Poland ... 166

Industrial Trailers for Chile (W. C. Youngman Ltd.) ... 449

J.C.B. Excavators for Japan (J.C. Bamford (Excavators) Ltd.) ... 103

Lansing Bagnall Form International Company ... 167
Locked Coil Wire Rope for Chile (British Ropes Ltd.) ... 43

Malta Chamber of Commerce Inspect Yale Trucks (Yale & Towne Mnfg. Co.) ... 655
Massey-Ferguson Tractors Made in India and Brazil (Tractors & Farm Equipment Ltd.) ... 44
Matbro Truck at Zurich Airport (Matbro Ltd.) ... 654
Mayrath Conveyors for Denmark (Gordon Felber & Co. Ltd.) ... 715
Mechanization Equipment for Canadian Post Office. (Vickers Armstrong (South Marston) Ltd.) ... 498
Mechanized Steel-fabricating Plant for Australia (Boulton & Paul Ltd.) ... 103
Mercury Tractors at Spanish Saharan Ports (Mercury Truck & Tractor Co. Ltd.) ... 498
Metal Industries Group's Sales to Europe ... 449
Michigans for Indus Project (J. C. Gammons (England) & Pegson of Coalville) ... 223

Norwegian Post Office Contract for Sovex Ltd. ... 167
Nuclear Research Equipment (Nuclear Equipment Ltd.) ... 166

£¼ Million Conveyor System in Northern Norway (New Conveyor Co. Ltd.) ... 654
£160,000 Export to Poland (B.T.R. Industries Ltd.) ... 548

Parker Crushing Plant for Benghazi (Frederick Parker Ltd.) ... 166
Paving Co. Ltd., of Canada, and Frederick Parker Ltd.) ... 102
Perkins Diesels for South Africa ... 167
Perkins Unit for Alfa Romeo Vans (The Perkins Group) ... 548
Plant to Handle Iron-ore Concentrates for Sierra Leone (W. J. Jenkins & Co. Ltd.) ... 600
Pneumatic Handling Equipment sold in Tel-Aviv (Murfitt Bulk Transporters Ltd.) ... 654

Rapier Mobile Cranes in Denmark and Malta ... 716
Record Coles Sales Overseas (Steel & Co. Ltd.) ... 448
'Robotugs' for Europe's Largest Goods Station (EMI Electronics Ltd.) ... 166
Rumania Orders New Type NCK-Rapier Truck Cranes (NCK-Rapier Ltd.) ... 599
Russia to Install Coventry Climax Fork Lift Trucks (Coventry Climax Engines Ltd.) ... 600

Side-discharge Tippers for S. African Steelworks (Strachan & Henshaw Ltd.) ... 715
Simon, Henry, Bulk Handling System for Warsaw ... 497
Smith Level-luffing Cranes for New Zealand (Thomas Smith & Sons (Rodley) Ltd.) ... 716
Smith Mobile Cranes for Bahrein (Thomas Smith & Sons (Rodley) Ltd.) ... 332
Smith Truck Cranes for Burma (Thomas Smith (Rodley) Ltd.) ... 102
Strachan & Henshaw Equipment for Australia and Tasmania (Strachan & Henshaw Ltd.) ... 599

Tunny Crane for Durban (Tunny Cranes Ltd.) ... 332
Turner & Newall Expansion in South Africa (Turners Asbestos Products (Pty) Ltd.) ... 223
26 Mercury Trucks for Bahrein (Mercury Truck & Tractor Co. Ltd.) ... 331

Wagon-handling Equipment for South Africa (Strachan & Henshaw Ltd.) ... 166
Walking Dragline for Italy (Ransomes & Rapier Ltd.) ... 223
Wrigley Trucks in Sweden (Wessex Industries Ltd.) ... 715

Yale Trucks for Holland (Yale & Towne Mnfg. Co.) ... 102
Yale Trucks for Overseas (Yale & Towne British Materials Handling Div.) ... 44

EDITORIALS

A Matter of Safety ... 671
A New Face ... 1
A Sense of Identity ... 339
A Three-cornered Link ... 615
Aids and Incentives ... 411
Export Trends ... 615
Good Materials Handling Benefits All ... 177
Improving our Handling Methods ... 117
Look at your Handling Methods ... 509
National Productivity Year ... 459
Productivity and Materials Handling ... 559
Talking About Ourselves ... 237
Work Study and Materials Handling ... 59

LOOSE INSERTS

'AT-A-GLANCE' List of British-made Industrial Tractors (for towing) ..... Feb.
'AT-A-GLANCE' List of British-made Industrial Platform Trucks (Driver operated) March
'AT-A-GLANCE' List of British-made Mobile Cranes ..... July
'AT-A-GLANCE' List of British-made Pallet and Stillage Trucks ..... December
Eighth Mechanical Handling Exhibition 1962 July

M.H. EXHIBITION AND CONVENTION

Among the Visitors 341
Cocktail Party 397
Eighth Mechanical Handling Exhibition (Equipment Displayed) 342
Facilities for Visitors 244
Film Programme 245
Gala Ball 396
Mechanical Handling Exhibition 214
Ninth Annual Dinner of The Institute of Materials Handling 398
Opening Ceremony 340
Plans of Exhibition 240
Preview of Exhibits 246

NEWS ITEMS

Clarke Ranger Demonstration 545
Factory Equipment Exhibition 1961 34
I.C.H.C.A. Container Conference 642
Lansing Bagnell Ltd. open Scottish Regional Depot 709
Michigan Convention 697
Press Conference on Mechanical Handling Exhibition 328
Reason for a Change (British Productivity Council) 24
Steel Group World Conference, The 710
Super Oil Seals and Gaskets New Factory 33
Two-week Course in Materials Handling 646

NEWS OF PERSONALITIES

Abel, Ronald W. 42
Adam, Atkinson W., M.I.Mech.E. 162
Adams, E. T. 330
Ahlquist, C. G. 163
Alderson, C. T. 162
Allin, Clifford W. 717
Ambrose, Desmond 41
Anderson, Neville 41
Anstey, Frank, B.Sc.(Eng.), M.I.Mech.E. 41

Bache, G. P. 41
Badham, D. G. 657
Baines, H. R., B.A. 221
Baker, James 446
Ball, G. L., B.Eng., A.M.I.E.E. 42
Barker, Bernard 717
Barker, Geoffrey Frank 329
Barlow, J. W. 495
Bass, Walter C. 717
Bastable, K. 329
Bates, Owen 656
Bates, Owen 330
Bealing, Gilbert 41
Bedford, P. 41
Beech, Donald 220
Bell, David A., Dr. 41
Bennett, Stephen F. 548
Bilton, R. F. 163
Blackie, William 220
Boardman, J. M.B.E. 446
Bone, G. W. 162
Bradley, R. J. 657
Bramham, Harry 41
Brightman, A. E. 717
Brook, L. 329
Broom, Kenneth, A.M.I.E.E. 598
Brown, C. 41
Brown, C. M. 163
Browne, A. W., O.B.E., M.I.E.E. 330
Browning, K. W. 100
Bryden, G. W. 101
Burge, D. 718
Burn, C. H. 163
Burton, R. O. 496
Byles, H. D. 101

Cambridge, F. C. 656
Cameron, C. McL., M.I.Mech.E. 598
Carr, Arnold 100
Carr, L. 548
Carter, Lister 598
Chapman, J. A. 101
Christian, J. R., A.M.I.Mech.E. 656
Clark, John A. 446
Clark, R. C. 162
Collins, J. M. 496
Counsell, R. 163
Cope, Ian H. 163
Cowley, Lt.-General Sir John, K.B.E. 548
Cowley, Lt.-General Sir John Guise, K.B.E., C.B., A.M. 329
Cunliffe, Geoffrey 41
Curran Freeman, J. 718

Davenport, R. M. 495
Davenport, J. T. 41
Davies, D. R. 657
Deakin, G. Geoffrey 221
Dickenson, A. S. 717
Doust, G. H. 42
Downie, Geo. 446
Downs, Arthur 656
Drummond Angus, D. 718
Dunlop, J. D., M.C., B.A. 41
Durrant, F. W. 330

Edgar, A. W. 163
Enwright, J. A. 42
Escott, H. F. 41
Evans, Sir Anthony A., Bart. 656
Everest, F. J., M.Sc., M.I.Mech.E. 100

Fielden, G. B. R., F.R.S. 42
Firth, J. 495
Fish, Raymond J. L. 657
Fischer, Paul 100
Foster, Frank, M.Sc., A.M.I.E.E. 598
Franklin, John Warrender 162
Friggens, William Godfrey 162

Gill, L. R. 220
Glensy, Kenneth 446
Goddard, J. V. 163
Goldsmith, J. A. 100
Goodman, Landon Leonard, B.Sc.(Eng.), A.R.T.C.S., M.I.Mech.E., M.I.Prod.E., F.R.S.A. 446
Griffiths, H. W. A., M.I.E.E. 446

Hackett, D. L. 446
Hackett, W., Jnr. 42
Hague, Allen 598
Halpin, J. P. 446
Harding, Lord of Petherton, Field Marshal 548
Harmer, D. W. F. 220
Hawke, Edward J. 446
Hill, A. W. 100
Hill, A. W. 162
Hill, F. B. 446
Hill, J. Antony 100
Hine, E. W. 329
Hodge, J. 162
Holman, J. F. 598
Holman, J. F. 162
Honeywell, R. W. 496
Horton, D. H. 100
Hunter, P. 657
Hurst, Geo. H. 100

Jackson, A. E. 718
Jackson, D. 329
Javan, W. P. 495
Jefferies, R. 220
Jerrett, E. H. 657
Jinks, G. M., Mrs. 163
Jofeh, M. I., O.B.E., A.M.I.E.E. 717
Jones, Brian 598
Jones, Francis 41

Kilkenny, William H. 657
Kilmuir, P. C., G.C.V.O., The Rt. Hon. The Earl of 656
King, Hartford M. 221
Kingston, N. P. 495
Kingston, P. A. 220
Kraft, Ingwald 656

Lamb, W. F. 101
Langford, A. 162
Lavis-Trafford, John de 446
Lee, D. 162
Lee, Norman, B.Sc. 656
Leeman, William 41
Leggett, M. B. 548
LeRoy, G. F. H. 162
Levy, Philip B. 656
Lister, R. Patrick 220
Lomax, Harold Lionel, B.A. 41

MacGregor, D., M.A., C.A. 330
MacMahon, John G. 220
McCarley, John T. 162
McGregor, Ross P., M.A. 101
McInnes, Colin 42
McLean, J., B.Sc.(Eng.), M.I.Mech.E., M.Inst. Welding 657
McLelland, W. 41
Malcolm, T. 220
March, A. A. C., Dr. 717
Marshall, A. L. 163
Marshall, L. A. 163
Martin, P. McA. 162
Mason, H. F., A.M.I.Mech.E. 656
Matkin, S. H. 329
May, Frank Will, A.M.I.Mech.E., M.S.A.E. 41
Minchin, R. J. 598
Moody, Robert F. 657
Moore, Mathew Reid 100
Moore, M. R. 162
Morland Fox, W. 329
Morris, C. E. H. 657
Neal, Brian H., B.Sc.(Eng.), M.I.Mech.E. 446
Newland, Wilfred 717

Oakman, T. H., A.M.I.Mech.E. 330
Oetinger, William 100
Oldfield, E. 220
Opperman, Ernest R. 717
Opperman, Richard A. 717

Packman, P. J. 101
Page, C. W. 41
Patterson, Gordon 717
Perkins, Frank 221
Perkins, T. H. R. 496
Picton, W. G. 329
Porkess, A. M., A.R.C.S.T., A.M.I.Mech.E. 100
Powell, Edward 330
Price, D. B. 446
Priestman, W. D. 446
Pritchett, C. G. F., M.I.E.E., A.C.G.I. 330

Quick, W. R. 41

Raasch, Harvey 100
Rees-Reynolds, Colonel Alan Randall, C.B.E., T.D. 42
Reynolds, R. D., A.M.I.E.E., M.Inst.F. 717
Richardson, R. A. S. 101
Ritchie, Macdonald John 221
Robb, Muir W., A.M.I.Mech.E. 718
Robinson, D. A. 495
Robinson, F. W. 717
Robinson, W. B. 446
Rockcliffe, H. A. 598
Rodnov, V. I. 221
Rowlands, J. R. 329

Sabin, T. G. 717
Scott Atkinson, G., B.Sc.(Tech.) 496
Shaw, C. S., M.I.Mech.E. 446
Simon, Viscount, C.M.G. 598
Slack, David H. 41
Smith, Allan G. 101
Smith, C. G. 162
Smith, Ron 656
Spiers, W. H. 101
Spittle, D. J. 446
Stedeford, Sir Ivan A. R., G.B.E. 42
Stevenson, A. F. 220
Stewart, J. P. 163
Strath, Sir William, K.C.B. 42
Sutcliffe, E. D. 100
Sutcliffe, R. J. 100
Sutcliffe, W. F. G. 100
Swift, Dean F. 100
Sykes, Arthur, O.B.E. 101

Thomson, J. H. 598
Taylor, J. H. 495
Timms, Michael J. 329
Tolley, L. J. 446
Tolley, Reginald G. 100
Tonks, Dr. R. J., B.Sc., A.M.I.Mech.E., D.I.C. 656
Trickey, John 330
Truman, R. G. 495
Twigg, Norman F. 162

Underwood, D. 220
Underwood, J. H. 548

Vansittart, E. N. 446
Verguson, R. E. 221
Vulliamy, N. M. F., M.A.(Cantab), A.M.I.Mech.E. 100

Walker, W. S. 41
Walling, A. 657
Warner, D. T. 163
Warner, J. W., M.A. 42
Watkinson, Rt. Hon. Harold, M.P. 548
Watts, Gilbert Ernest Cozens 162
Welch, Fred F. 657
Wellings, Jack A. 657
Wernher, Sir Harold, A. Bt., G.C.V.O., T.D. 446
Weston, F. D. 548
Wheeler, C. R. 100
Whitworth, J. C. A. 100
Williams, C. H. 101
Winterbottom, P. 657
Wood, Stuart G. 717
Woolley, Keith F. 548
Wordsworth, N. E. 717
Worledge, P. 42
Worth, T. C. 41
Wright, D. F. 548
Wright, J. H. 496

Young, R. D. 42

OBITUARIES

Boydell, Edward 548
Bright, T. R. 598
Brook, Michael J. L. 101

Clark, Sir Allen 548
Clease, Albert George Douglas 447
Coward, Tom 163

Downs, E. 598

Entwisle, Gertrude Lillian, A.M.I.E.E. 42

Gascoigne, George H., M.I.Struct.E. 447

Page

Goodlet, Dr. Brian Laidlaw, O.B.E., M.A. Sc.D., M.I.MechE., M.I.E.E. 42
Grimsdick, E. P. 42
James, I. 101
Maclagan, John C. M. 221
McMillan, Robert Davidson 42
Maxwell, Alexander 718
Mitchell, Gilbert 718
Oliver, Kenneth Lloyd 42
Roebuck, Alfred 163
Waddell, John 101

PUBLICATIONS RECEIVED

An Outline History of the Oil Engine and its Lubrication (Shell-Mex and B.P. Ltd.) 54
Anderston Clyde Engineers Ltd. 549
Audco Ltd. 549
Aveling-Barford News 658

Baker Perkins Pneumatic Handling 496
Blending with Plenty (Plenty & Sons Ltd.) 447
Bristow, George Ltd. 549
British Engine Boiler & Electrical Co. Ltd. 447
Burgess Products Co. Ltd. 496

Case, J. I., Co. Ltd. 658
Chase, P. C. & C. K. Ltd. 496
Clark Clutch Co. Ltd. 549
Closed Circuit Television (EMI Electronics Ltd.) 54
Compactom Ltd. 549
Computors and Production Control (Institution of Production Engineers) 165
Conveyancer Fork Trucks Ltd. 112, 232, 447, 496, 549
Co-operative Electrical Research (British Electrical & Allied Industries Research Association) 112
Craven Electronics Ltd. 112
Crofts (Engineers) Ltd. 447, 549
Crompton Parkinson Ltd. 447, 496

Dexion Ltd. 54

E.M.B. Co. Ltd. 112
Eddison Plant Hire Service Brochure (Eddison Plant Ltd) 601
Eddison Plant Ltd. 549
Educational Productions Ltd., & Lang Pneumatic Ltd. 447
Efco Furnaces Ltd. 447
Eimco Corporation, The 112
Electro Chemical Engineering Co. Ltd. 658
Electro-Magnetic Valves (Londex Ltd.) 232
Emco Brass Mfg. Co. Ltd. 232
Engineering Progress (Ashmore, Benson, Pease & Co. Ltd.) 232
European Zinc Alloy Die Casting Bulletin N.8 (Zinc Development Association) 165
Evan Cook—an International Service (Evan Cooks Depositories Ltd.) 112

Facts on Cold Extrusion (Forgings & Presswork Ltd.) 112
Fenner & Co. Ltd., J. H. 165
Fluidrive News (Fluidrive Engineering Co. Ltd.) 112
Ford Motor Co. Ltd. 658
Friction Materials for Engineers (Ferodo Ltd.) 232

General Electric Company, The 601
Guide to Pallets and Stillages (Bambergers Pallets & Cases Ltd.) 447

Higher Tensile Chain Slings (Edge & Sons Ltd.) 658
Holroyd, John & Co. Ltd. 601
Hydraulic Machinery Drives Ltd. 112

Imperial Chemical Industries Ltd. 112
Industrial Research of Manufacturing (FBI Report) 165
International Journal of Production Research, The (Institution of Production Engineers) 165

Joy Sullivan Ltd. 601

Lee & Sons Ltd., Arthur 601
Let Rownson Run the Rule Over It (Rownson Conveyors Ltd.) 601
Light & Power Accessories Co. Ltd. 232
Link-Belt Company 54

MI Review (Metal Industries Group of Companies) 601
Machining Characteristics of Stainless Steel (Production Engineering Research Assoc. of G.B.) 165
Meaker Company, The, When to Automate .. 496
Measurement and Control (Iliffe Journal) 165
Mitchell, L. A., Ltd. 549
Molybdenum Disulphide in Action (K. S. Paul (Molybdenum Disulphide) Ltd. 112
Moving on Skates (Verrolec Ltd.) 232

Page

New 'Poly-V' Drive Publication (Turner Brothers Asbestos Co. Ltd.) 549
Nickel Bulletin, The (The International Nickel Co. (Mond) Ltd.) 112, 658
Nickel-containing Magnetic Materials (International Nickel Co. (Mond) Ltd.) 165

Paterson Hughes Engineering Co. Ltd. 112
Picture Press (Pressed Steel Co. Ltd.) 54
Pollard Bearings Ltd. 112, 601, 658
Powell & Company 447, 496
Priestman Brothers Ltd. (Operator's Maintenance Guide) 496
Products of United Steel, The (The United Steel Co. Ltd.) 549, 601

Ransomes & Rapier Ltd. 601
Ransomes & Rapier Ltd. (Master of the Mobile) 496
Rapid Magnetic Ltd. 232, 447
Rubber Developments (Natural Rubber Bureau) 54

SN 35-ton Dump Truck 549
Safety and Health in Industry (Industrial Health & Safety Centre) 54
Sandvik, Starting a New Century (Sandvik Steel Band Conveyors Ltd.) 601
Silicate News (Joseph Crosfield & Sons Ltd.) 54
Skefko Ball Bearing Co. Ltd., The 601
Spencer (Melksham) Ltd. 658
Stacatruc Ltd. 447
Steel, Peech & Tozer 601
Stephens Belting Co. Ltd. 658
Sutcliffe Ltd., Richard 232

Three-dimensional Factory Layout (Visual Planning Systems Ltd.) 165
Town Gas for Gas Carburizing and Carbo-Nitriding (Gas Council) 549
Trailers and Couplings (Conveyancer-Scott Electric Vehicles Ltd.) 54
Transistor A.C. Power Regulators (Westinghouse Brake & Signal Co. Ltd.) 549
Tully Engineering Co. Ltd. 447
Turner Brothers Asbestos Co. Ltd. 496

Ward, Thos. W. Ltd. 447
Welding Aluminium (Alcan Industries Ltd.) .. 165
Westinghouse Brake & Signal Co. Ltd. 447

Yale & Towne Mnfg. Co. Ltd. 658

RECENT PATENTS

Recent Patents 56, 115, 175, 235, 338, 457, 507, 557, 613, 666, 729

REVIEW OF NEW EQUIPMENT

A Third Hand (Blackhawk Ltd.) 226
Abrasion-resistant Hose (The Goodyear Tyre & Rubber Co. (Gt. Britain) Ltd.) 605
Annular Diaphragm Valves (British Arca Regulators Ltd.) 501
Asphalt Finisher (Jack Olding & Co. Ltd.) .. 503
Austin-Western Hydraulic Crane 106
Automatic Speed Control of Mine Cars 550

Battery-operated Lifting Magnet (Rapid Magnetic Limited) 109
Bearing Heater (Browning's Electric Co. Ltd.) 499

C. and S. Relays (D. Robinson & Co. Ltd.) 604
Cable Chain System (Metropolitan Tool & Products Ltd.) 550
Cam-operated Pilot Valve (Stuart Davis Ltd.) 46
Cars for Constructional Plant (Redvales Ltd.) 104
Centralized Control of Liquid Batching (Automatic Control Engineering Ltd.) 499
Co-axial Gearbox (Higgs Motors Ltd.) 721
Collapsible Box Pallets (Eccles Engineering Ltd.) 500
Compact Swedish Fork Truck (Rolatruc Ltd.) 452
Compressed-air Loading Hoist (Submarine Cables Ltd.) 719
Conveyor Ball Transfer Units (Autoset (Production) Ltd.) 603
Conveyor Switch Units (Manufactures Equipment Co. Ltd.) 226
Crane Skip with Bottom Discharge (Thwaites Engineering Co. Ltd.) 450
Crawler-mounted Drilling Rig (Consolidated Pneumatic Tool Co. Ltd.) 604

Deep-trough Conveyor Belting 107
Diesel Engine Electric Starter (C.A.V. Ltd.) 170
Displaying Stopclocks (Hird-Brown Ltd.) 105
Drafting Machine (Lawes Rabiohns Ltd.) 104
Duplex Mud Pump (C. H. Johnson (Machinery) Ltd.) 720
Dustless Powder Unloading and Conveying (Bivac Air Co. Ltd.) 228
Duthane-tyred Wheeled Castor (Autoset (Production) Ltd.) 660

Elapsed Time Indicator (Cass & Phillip Ltd.) 168
Electric Boom Truck (A. Hirst & Sons Ltd.) 104
Electric Chain Hoist (Lifting Gear Products (Eng.) Ltd.) 225
Electric Dredger Winch (Richard C. Gibbins & Co. Ltd.) 225
Electric Wire Rope Pulley Block (Vaughan Lift Engineering Ltd.) 659
Electro-hydraulic Loading Bank (Burtonwood Engineering Co. Ltd.) 662
Electro-Magnetic Vibrators (Triton Engineering Co. (Sales) Ltd.) 227
Electronic Control Circuit Couplings (Metaducts Ltd.) 333

Fiat Earth-moving Equipment (Fiat Tractors Ltd.) 606
15-ton Payload Cement Vehicle (Bonallack & Sons Ltd.) 452
Flameproof Temperature and Level Control Equipment (Craven Electronics Ltd.) 109
For High-speed Timber Handling (George Cohen Sons & Co. Ltd.) 603
For Manoeuvring Vehicles (Autoset (Production) Ltd.) 606
Four-wheel-drive Tractor Shovel (E. Boydell & Co. Ltd.) 503
Fractional Horse-power Motors (Comtex Limited) 47
Friction Drive Unit (Allspeeds Ltd.) 226
Friction Proofing (Wynn's Friction Proofing Products) 104
Front-end Loader (Eimco (Great Britain) (Ltd.) 169

Go-Anywhere Electric Vehicle (Eccles Engineering Ltd.) 607
Grizzly Feeders (Fraser & Chalmers Eng. Works of G.E.C. Ltd.) 224

Heavy-duty Air Cylinders (Benton & Stone Ltd.) 105
Heavy-duty Excavator (Inchgreen Engineering Co. Ltd.) 499
Heavy-duty Vibra Screw Feeder (Simon Handling Engineers Ltd.) 661
High-Intensity Cross-belt Magnetic Separator (Mageo Ltd.) 502
High-lift Elevator Truck 107
High-powered Loading Shovel (F. E. Weatherill Ltd.) 500
High-speed Pan Mixer (Triton Engineering Co. (Sales) Ltd.) 662
Hydraulic Load Clamps (Powerhead Ltd.) .. 502
Hydraulic Mobile Crane (Tunny Cranes Ltd.) 228
Hydraulic Retarder (Richard Sutcliffe Ltd.) 168

Improved Mono-rail Transporter (Road Machines (Drayton) Ltd.) 722
Improved Simon Hydraulic Platform (Simon Engineering Ltd.) 663
Industrial Castors (Revvo Castor Co. Ltd.) 552
Industrial Control Relays (Square D Ltd.) 333
Industrial Push-button Switch (Square D Limited) 603
Industrial Tyres (Watts Tyre & Rubber Co. Ltd.) 46

L.P. Gas Control and Carburettor Unit (Lipton L.P. Carburettor Co. Ltd.) 48
Level Controller (Thomas Industrial Automation Ltd.) 226
Levolog as a Level Transmitter, The (Thomas Industrial Automation Ltd.) 658
Light-weight Mobile Conveyors (G. Hunter (London) Ltd.) 663
Linear Motion and Rotary Bearings (Rotolin Bearings Ltd.) 606
Log-lifting Beam (Brown, Lennox & Co. Ltd.) 47
Long-range Photo-electric Equipment (Lancashire Dynamo Electronic Products Ltd.) 50
Loose Materials Thrower (George Fletcher & Co. Ltd.) 551
Low Headroom Electric Hoist (Fellows-Stringer) 602

Magnetic Extractor for Fluids (Rapid Magnetic Ltd.) 603
Magnetic Separators (General Electric Co. Ltd.) 49
Maintenance Platform for Jetliners (Mercury Airfield Equipment Ltd.) 108
Meal Grinding and Blending Plant (John T. Thorneycroft Ltd.) 722
Mobile Scrap Metal Baling Press (Fawcett Preston & Co.) 49
More Powerful Chaseside Loading Shovel (Chaseside Engineering Co. Ltd.) 720
Motorized Conveyor Drum (Andantex Ltd.) 451
Multi-speed Cable Winch (Richard C. Gibbins & Co. Ltd.) 333

Neeter Drive Units (Cordey-Thomson Ltd.) 225
New Allis-Chalmers Tractor Loader 658
New Belting Saves Conveying Costs (G. & T. Earle Ltd.) 501
New Industrial Racking (Steel Equipment Co. Ltd.) 724
New Magnetic Separator (Rapid Magnetic Ltd.) 226
New Simplex Hydraulic Jack (Equipment & Engineering Co. Ltd.) 334
New V-belt Design (James Dawson & Son Ltd.) 452

Page

Oil-free Compressors (Mining & Compressor Engineering Co. Ltd.) 451
Oil Hydraulic Cylinders (E. Mathews Engineering Co. Ltd.) 605
One-way Clutch (Borg-Warner) 106
One-way Trip Valves (Martonair Ltd.) 723

Passenger Conveyor Belt without Idlers (Dunlop Rubber Co. Ltd.) 503
Pedestrian-controlled Electric Truck (Richard Maurice Equipment Co.) 502
Permanent Magnet Drum Separators (Industrial Magnets Ltd.) 168
Pinch-type Valves (Wilkinson Rubber Linatex Ltd.) 46
Pivot-steering Front-end Loaders (General Motors) 719
Powerdozer for Massey Ferguson 35 Tractor 107
Powered Bar Bender (Chamberlain Industries Ltd.) 45
Process Weighing and Controlling System (Murphy Radio Ltd.) 224
Purpose-built Pallets (Bambergers Ltd.) 501

Rear Dump Hauler (Shawnee Poole Ltd.) 721
Redesigned Mobile Conveyor (C. M. Johnson (Machinery) Ltd.) 602
Relay for Pneumatic Control Systems (Associated Electrical Industries Ltd.) 170
Renold Chain Drives 107
Rotary Snow Plough Attachment (Rolba Ltd.) 169

Safety Scaffolding Castors (Flexello Castors & Wheels Ltd.) 660
Scrap-handling Magnet (G.E.C. Ltd.) 663
Screw Elevator (Ajax Equipment Ltd.) 108
Self-priming Centrifugal Pumps (Millars' Machinery Co. Ltd.) 723
Semi-automatic Pallet Loader (Lawrence Eng. Co. Ltd.) 224
Smaller and Lighter C.A.V. Generator (C.A.V. Limited) 334
Small Dust Filter (Dallow Lambert & Co. Ltd.) 45
Soleniod-operated Control Valves (Fluid Power Ltd.) 552
Square Batch Mixer (E. R. & F. Turner Ltd.) 45
Stairway Load Lifter (New Design & Development Corpn.) 47
Static Pump for L.P. Gas (Transport Consultants Ltd.) 225
Swinging-Grab-Loading Attachment C. H. Johnson (Machinery) Ltd.) 724

10-ton Grab Dredging Crane (Priestman Bros. Ltd.) 721
Three-wheel Electric Trucks (Wessex Industries (Poole) Ltd.) 602
Three-wheel Industrial Truck (The Excelsior Motor Co. Ltd.) 719
Tool-carrying Trailer (Scottorn Limited) 607
Tractor-mounted Lift Platform (Packman Machinery Ltd.) 660
Tractor-scraper with Powered Shift Transmission (Caterpillar Tractor Co., U.S.A.) 48
Triple-duty Filter (C.A.V. Limited) 334
20-ton Fork Lift Truck 106
Twin-screw Proportioning Feeder (Ajax Equipment Ltd.) 108

Ultra-deep Troughed Belt Conveyors (C. H. Johnson (Machinery) Ltd.) 603
Unit Contactors (Dewhurst & Partners Ltd.) 662
Unit Dust Collectors (Dallow Lambert Ltd.) 227

Versa Control Valves (British Arca Regulators Ltd.) 47
Versatile Mobile Crane (Brown & Tawes Ltd.) 451
Versatile Rotary Pump (Plenty & Sons Ltd.) 605
Vibrator Screens (G.E.C. (Engineering) Ltd.) 551
Vibratory Compaction Tables (Industrial Vibrators Ltd.) 660
Vibratory Conveyor (Magco Ltd.) 226

Weight Trip Amplifier for Cranes (Ekco Electronics Ltd.) 169
Wire-race Precision Bearings (Roballo Engineering Co. Ltd.) 49

SOCIETIES AND INSTITUTIONS

Institute of Materials Handling 53, 173, 336

SUMMARY OF CONTENTS

Summary of Contents 2, 61, 119,
Sommaire en Français 178, 238, 412,
Inhaltsübersicht auf Deutsch 460, 510, 561,
Sumario en Español 616, 672

TRADE NOTES

A.E.I. District Office at Coventry 110
A Letter to the Editor 724
Additions to the Range of Pingon Tower Cranes (Geo. Cohen Sons & Co. Ltd.) 607

Page

Agents for Gramac (Gramac (Mechanical Handling) Ltd.) 664
Agreement Between Brake Manufacturers (Hamworthy Engineering Ltd. and New York Air Brake Co.) 663
Air Cushion Journal Launched 610
Aldersley Offer Individual Units (Aldersley Engineers Ltd.) 232
Agents for Atlas Truck (Omic Limited) 336
Anti-Static Conveyor Belting, Richardsons Fertilisers Ltd.) 666
Audenshaw Periodicals Service, The 505
Automatic Warehousing—Southern Division (W. K. J. Abel and Boots Pure Drug Co. Ltd.) 173

B.S. Specification for V-belt Drives Revised (British Standards Institution) 231
Babcock & Wilcox Ltd., (S. W. Area Office) 453
Baker Perkins Ltd. 725
Bamfords Ltd., & J. C. Bamford (Excavators) Ltd. 52
Barker & Co. (London) Ltd., J. N. 172
Barley Drying Plant Order (Simon Handling Engineers Ltd.) 231
Bartlett Materials Change of Address 453
Benoto Agency for Clyde Crane & Booth Ltd. 664
B.I.T.A. Dinner 725
Boss (Engineers) Ltd., and Lancers Machinery Ltd. 504
Boydell & Co. Ltd., E. Transfer 335
Bringing Safety to Materials Handling 725
British Hoist & Crane Appoint Agents 665
British Standards Specifications (British Standards Institution) 171
British Trade Fair in Bucharest (Matbro Ltd.) 666
British Transport Commission Crane Order (Thomas Smith & Sons (Rodley) Ltd.) 553
Bulk Flour and Pneumatic Handling Systems (Baker Perkins Ltd.) 229

Case, J. I. Co. Ltd. 335
Castrol Forms New Subsidiary (Biadite Ltd. and Metal Cleaning Ltd.) 51
Cattermole, H. S. & Co. (Hydraulics) Ltd. 727
Caterpillar Open New Plant (Caterpillar Tractor Co. Ltd.) 726
Centenary of J. H. Fenner & Co. Ltd. 111
Changes of Address—New Factories and Depots:
Aerograph-DeVilbiss Co. Ltd.
Austin Packaging Ltd.
Blaw Knox Ltd., Construction Equipment Division
C. H. Johnson (Machinery) Ltd.
Chamberlain Plant Ltd.
Lansing Bagnall Ltd.
Square D Limited
Strachan & Henshaw Ltd.
Ruston-Bucyrus Ltd. 52, 53
Stewarts & Lloyds Ltd., Birmingham 172
Brook Motors Ltd. 554
Roballo Engineering Co. Ltd. 608
Clark Clutch Co. Ltd. 665
Changes at Caterpillar (Caterpillar Tractor Co. Ltd.) 608
Coal Preparation Plant Exhibition and Congress (National Coal Board) 111
Compressed Air and Hydraulics Exhibition 172
Contract for Hollow Steel Crane Bodies (B.D. Steel Structures Ltd. and S. H. Heywood & Co. Ltd.) 553
Contract for Stachan & Henshaw (Coalite & Chemical Products Ltd.) 335
Conveyancer-Eddison Hire Service Arrangement 454
Conveying Plant Order for G.E.C. 454
Courses in Work Study (Engineering Employers' West of England Association) 51
Courses on Materials Handling in the U.S.A. 727
Courses on Materials Handling (L. W. Bailey & Partners Ltd.) 111
Crofts 75th Anniversary (Crofts (Engineers) Ltd.) 336

Dunlop Belting 505

E.C.G.D's Office Moves 172
Eddison Plant Ltd. 230, 505
Education Prize Scheme (MHEA) 230
£80,000 Development at Horbury (Richard Sutcliffe, Ltd.) 665
Electric Furnace Merger (General Electric Co. Ltd., and Efco Ltd.) 232
Electrical Research Association Reports 111
Elevators for Wine Store (Brown & Pank and Sovex Ltd.) 173
Exhibition in Wales (S.W. Div. of the Institute of Materials Handling) 725
Export Council For Europe Convention 51

Féderation Européenne de la Manutention 51
Fiat O.M. Fork Lift Trucks Spurling Motors (Chiswick) Ltd. 609
Finspa London Depot 724
First Industrial Lubrication Exhibition (Scientific Lubrication and U.T.P. Exhibitions Ltd.) 51
Flour and Sugar Handling Systems (Henry Simon Ltd. and Hendees Ltd.) 51
Flexello Birmingham Office 607
Floating Crane for Port of London Authority (A.E.I. Motor & Control Gear Division) 608

Page

German-speaking Department for G. Hunter (G. Hunter (London) Ltd.) 231
German Crane Standards Translation (Iron and Steel Institute) 110
Group Move to Maidenhead (The Package Sealing Group of Companies) 665
Gerrard Industries (Welwyn Engineering Co. Ltd.) 230
Giant Order from Indian Coal Board (Breco-Ropeways Ltd.) 173
Glacier Factory for Jarrow (The Glacier Metal Co. Ltd.) 172
Grab Dredging Crane Order (Priestman Bros. Ltd.) 553

Hainsworth Research Centre, The. (J. H. Fenner & Co. Ltd.) 111
Handling Contracts for Babcock & Wilcox 454
Hardinge Constant Weight Feeder (International Combustion Ltd.) 727
Herbert Morris Integration (Herbert Morris Ltd.) 229
Hi-Flex High-Pressure Hose (Singlehurst Equipment (Scotland) Ltd.) 171
How to Analyse Materials Handling Problems (Industrial Education International Ltd.) 607
Hydraulics Firms Move (Hydraulic Machinery Drives Ltd., and Industrial Hydraulics Ltd.) 335

Improved Muir-Hill LH1 Loader (E. Boydell & Co. Ltd.) 663
Industrial Film and Demonstration (Benton & Stone Ltd.) 231
I.T.D. (Stacatruc Ltd.) 171
Iliffe Books Spring Supplement 232
Institute of Materials Handling, The 455
International Combustion Coal Handling Contract 455
International Conference of Materials Handling 173
International Construction 454
Israeli Contract for Montgomerie Reid 504

Jenkins, W. J. & Co. Ltd., Order (Guest, Keen Iron & Steel Works) 51
John Morris Memorial Award 50
Jubilee for Parker's of Leicester (Frederick Parker Ltd.) 110

Largest Ball Bearing Slewing Ring (Eisenwerk Rothe Erde G.m.b.H., Roballo Engineering Co. Ltd.) 664
Latest Jones Crane (K. & L. Steelfounders & Engineers Ltd. and Geo. Cohen Sons & Co. Ltd.) 111
Lectures of Pneumatics (Borough Polytechnic) 666
Leverton & Co. Ltd., H. Move 453
Lorry Mounted Crane Association 110

Martonair Open New Bristol Office (Martonair Ltd.) 665
Matbro Ltd., Expansion 455
Materials Handling Analysis 111
Materials Handling for Industry 455
Materials Handling in Canada Exposition 111
Mercury Truck & Tractor Co. Ltd. 608
Metalastik Silver Jubilee (Metalastik Ltd.) 335
Mitco (Overseas) Ltd. (Watts Tyre & Rubber Co. Ltd.) 51
Morris, John Memorial Award 1962 Competition 454

National Productivity Year 609
New and Extended Premises (Barron & Son Ltd.) 230
New Birmingham Depot for Fred Myers Ltd. 554
New Building for Square D Limited 554
New Company to Market Goose Dumpers (R. Smith (Horley) Ltd. and Mackay Industrial Equipment Ltd.) 335
New Conveyor Company's Extension 453
New Depots:
Conveyancer Fork Trucks Ltd. 171
Abelson & Co. (Engineers) Ltd.
New Branch:
Brown & Tawse Plant Ltd. 335
New Geo. W. King Film 50
New Head Office for G.E.C. 453
New Headquarters and Warehouse for William Timpson Limited 609
New Look for Trojan Tractor Shovel (Yale & Towne Ltd.) 229
New Manufacturers for 'Skyhi' Loaders (Wm. Moseley (Engineers) Ltd. 554
New John Deere-Lanz Dealer (J. D. Tractors Ltd.) 554
New Offices (The Mechanical Handling Industry Joint Exhibition Committee, A.R.A., B.I.T.A., and M.H.E.A.) 665
New Research Centre of British Ropes 52
Non-slip Conveyor Belting (Tannoid Ltd.) 51

Order for Dempster Equipment (Powell Duffryn Engineering Co. Ltd.) 53
£120,000 Contract for S. H. Heywood & Co. Ltd. 607
Overhead Cranes for Park Gate Development (Park Gate Iron & Steel Co. Ltd.) 553
Overseas Distributors for E. Boydell & Co. Ltd. (Ruston & Hornsby (Aust.) Pty. Ltd., and Maschinenkontor, G.m.b.H.) 232

Page

Package Deal Service to Industry (Spencer (Melksham) Ltd.) 554
Parkinson Cowan Enter New Field of Industry (Parkinson Cowan Ltd. and Wild Barfield Ltd.) 229
Partridge, Wilson & Co. Ltd. 230
Planning Consultant (Distribution Planning) 231
Plans for Common Market (Black & Decker Ltd.) 52
Powell Duffryn Take-Over Bid Successful (Hamworthy Engineering Ltd.) 666

R.A.F. Use Conveyancer Trucks 727
Radio Controlled Tractor Shovel (Allis-Chalmers Mnfg. Co., U.S.A.) 231
Radio Telephone for Trucks (C. A. Parsons & Co. Ltd.) 172
Raynesway Plant Hire Ltd. 665
Redlers Appoint Distributors for New Crane (Redler Conveyors Ltd. and Vales Plant Register Ltd.) 231
Reorganization of Company (West of England Sack Holdings Ltd.) 608
Research in Cargo Handling (I.C.H.C.A.) 553
Robson, Geo. & Co. (Conveyors) Ltd. 608
Rolatruc, Ltd. 504
Ruston-Bucyrus Ltd. 230

Safety Standards for Cranes (International Standards Organization Technical Committee) 51
Second Work Study Congress 666
Scotland to Ireland and Back in a Day (Caledonian Steam Packet Co. (Irish Services) Ltd. 109
Second Bulk Handling plant for Bakery Broadhurst & Co. (Gadbrook) Ltd. 608
Selling Rights for Neco Products 454
Shell Film (Shell-Mex and B.P. Ltd.) 53
Simms Motor & Electronics and Crosland Filters 172
Simon Engineering Contracts (Henry Simon Ltd. and Peek Frean & Co. Ltd.) 504
Sir Keith Joseph Visits Priestman Brothers 335
£60,000 Modernization Plan for Matterson (Matterson Ltd.) 664
Square D Ltd. 726
Storage and Handling Consultants (Designed Storage & Handling Co.) 232
Storage Equipment on Leasing Agreement (Fix Equipment Ltd. and Mercantile Leasing Co. Ltd.) 504
Strachan & Henshaw Nuclear Power Equipment 229

Technical Design Ltd. (Technical Art (Bristol) Ltd.) 171
Telehoist Demonstration 505
£10,000 Order for F. Short (Crone & Taylor) 664
£30,000 Contract (J. Glover & Sons Ltd.) 663
Top Management Visit J. D. Tractors (Deere Organization) 505
Towmotor Lansing Ltd. (Lansing Bagnall and Colvilles Ltd.) 172
Towmotor Trucks for Colvilles (Colvilles Ltd.) 110
Tractors Ltd., J. D. 335
Trade and Industrial Mission to the Caribbean (Western Hemisphere Exports Council) 554
Training Aids for Industry (Input Limited) 610
Trojan Tractor Shovels Sales and Service (Yale & Towne Mnfg. Co.) 109
Tunny Cranes Ltd., Distributor for South Africa 455
12 Allen Cranes for Mechquip (John Allen & Sons (Oxford) Ltd. and Wood, Pritchett & Partners Ltd.) 725
Two-day Seminars on Warehousing (Materials Management International Ltd.) 172
£2,000,000 Worth of Orders (Heenan & Froude Ltd.) 664 610

U.S. Development by Pollard (Pollard Ball & Roller Bearing Co. Ltd.) 232 110
U.S. Equipment to be Manufactured in U.K. (Powell Duffryn Ltd., International Combustion Ltd. and Rhymney Eng. Co. Ltd.) 504 232

Vickers Sperry Rand Ltd. (Stein Atkinson Vickers Hydraulics Ltd.) 171 110, 229
Vickers Ltd., and All Wheel Drive, Ltd. (Vickers Ltd.) 505 109
Visit to Allis-Chalmers Great Britain Ltd. 663 231

War Office Contracts Department Order 20 Mobile Cranes 505 666
Wards at Work (Thos. W. Ward Ltd.) 172 455
Warehouse and Distribution Luncheons (Homebys Ltd.) 110 111
Wood, Pritchett & Partners Ltd. 335 608

Yale's New Venture in West Berlin (Yale & Towne International Inc.) 608

Printed at The Baynard Press by Sanders Phillips & Co., Ltd., Chryssell Road, London, S.W.9.
and published by Iliffe Industrial Publications Ltd., Dorset House, Stamford Street, London, S.E.1